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Release Notes for OnGuard® 2012 and Service Pack Releases

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1. Introduction

These Release Notes cover OnGuard 2012, OnGuard 2012 Hot Fix 1 (HF1), and OnGuard 2012 Service Pack 2 (SP2).

For an overview of this document:

- Section 1 Introduction (this section) provides information on where to find installation instructions, OnGuard client purchases, OnGuard training, and the scope of this document.
- Section 2 OnGuard 2012 SP2 Release Notes lists the versioning information, new features and updates, and known issues that apply to the OnGuard 2012 SP2 release.
- Section 3 OnGuard 2012 HF1 Release Notes lists the versioning information, new features and updates, and known issues that apply to the OnGuard 2012 HF1 release.
- Section 4 OnGuard 2012 Release Notes lists the supported operating systems, upgrades, versioning information, new features and updates, and known issues that apply to the OnGuard 2012 release.
- Section 5 Copyright and Trademark Notice provides copyright and trademark notices for Lenel and other third-party vendors.

For a list of resolved issues, refer to the Resolved Issues document. For a list of limitations, refer to the Limitations document.

Installation instructions are available in portable document format (PDF) on the OnGuard disc in the **..\Program Files\OnGuard\doc** folder in the appropriate language sub-folder. For example, English documents are located in the en-US sub-folder. On 64-bit operating systems, the installation instructions are in the **..\Program Files (x86)\OnGuard\doc** folder. OnGuard 2012 (6.5) from this point forward will be referred to as OnGuard 2012.

Note:	OnGuard requires Microsoft Data Access Components (MDAC). When installing OnGuard, use the version of MDAC that was installed by default with the host computer's operating system. Do not install the version of MDAC that is included on the OnGuard Supplemental Materials Disc.

OnGuard clients purchased from Lenel no longer ship with the OnGuard software DVD. OnGuard installation and supplemental DVDs are now available for download directly from the Lenel Web site: http://www.lenel.com/support/downloads/onguard. (You will need your Lenel login to gain access to this site.) Download the OnGuard software and create a master DVD for all of your client installations.

Lenel Global Education provides instructor-led, Web-based Global Distance Learning for more in depth knowledge on the new features in this release. The training is available for Value Added Resellers (VARs), Certified OnGuard System Users, and OnGuard System User Administrators. Please visit the Lenel Web site for more details and schedules: http://www.lenel.com/training#distance-learning.

2. OnGuard 2012 SP2 Release Notes

2.1. Versioning Information

Note: This section lists the versioning information new to OnGuard 2012 SP2. OnGuard 2012 SP2 also supports versions for OnGuard 2012 HF1 as listed in Section 3.1 Versioning Information on page 6, and OnGuard 2012 as listed in Section 4.3 Versioning Information on page 11.

2.1.1. Current Access Series (LNL) Firmware and Special Application Versions

- LNL-500/1000/2000 ISC Version 3.121
- LNL-2210/2220/3300 Series 2 Version 1.188

2.1.2. Current Security Series (NGP) Firmware

- NGP: Version 1.02.036 (applies to NGP-22xxx and NGP-33xxx panels)
- NGP-1300-U/1320-U/1200-U/1100-U: Version 11.14.02

2.1.3. Current ILS Firmware

- Control Module (ACU): 3.0.0.25

2.1.4. Supported Operating Systems

Note: Starting with OnGuard 2012 SP2, Microsoft Windows XP and Windows Server 2003 are no longer supported operating systems.

2.1.4.1. Windows 8.1 Update 1 Enterprise and Professional

- Windows 8.1 Update 1 Enterprise and Professional 32-bit and 64-bit are approved for all OnGuard server and client operations.
- Windows 8.1 Update 1 Enterprise and Professional are not recommended for use on the Web Application Servers (LS Application Server service) because the number of client connections to IIS is limited in these operating systems.
- Windows 8.1 Update 1 Enterprise and Professional will be called “Windows 8.1 Update 1” from this point forward in the OnGuard Release Notes.

2.1.4.2. Windows 8 Enterprise and Professional

- Windows 8 Enterprise and Professional 32-bit and 64-bit are approved for all OnGuard server and client operations.
- Windows 8 Enterprise and Professional are not recommended for use on the Web Application Servers (LS Application Server service) because the number of client connections to IIS is limited in these operating systems.
- Windows 8 Enterprise and Professional will be called “Windows 8” from this point forward in the OnGuard Release Notes.

2.1.4.3. Windows Server 2012 R2 Standard

- Windows Server 2012 R2 Standard 64-bit is approved for all OnGuard server and client operations.
- Windows Server 2012 R2 Standard will be called “Windows Server 2012 R2” from this point forward in the OnGuard Release Notes.

2.1.4.4. Windows Server 2012 Standard

- Windows Server 2012 Standard 64-bit is approved for all OnGuard server and client operations.
- Windows Server 2012 Standard will be called “Windows Server 2012” from this point forward in the OnGuard Release Notes.

2.1.5. Supported Database Systems

- Oracle 12c R1 Server 64-bit (12.1.0.1) with 32-bit Client installed if OnGuard is running on the same server as the database

2.1.6. Supported Web Browser

- Internet Explorer 9.0, 10.0, or 11.0 (Required for License Administration and Web applications)

Note:	Internet Explorer 8.0 is not supported in OnGuard 2012 SP2.

2.2. New Features and Updates

- **Removal of Mercury Serial Number License Check (OG-27420):** The “Disable Hardware Serial Number Verification” license bit was removed in order to reduce Technical Support calls during customer conversions.
- **OnGuard 2012 SP2 supports CSSN SDK 10.00.08 (OG-27145):** This version of the SDK supports the ScanShell 1000B Passport Scanner, new passports, and enhanced drivers licenses. The SDK is available on the Lenel Web site: http://www.lenel.com/support/downloads/onguard. (You will need your Lenel login to gain access to this site.)

3. OnGuard 2012 HF1 Release Notes

3.1. Versioning Information

Note: This section lists the versioning information new to OnGuard 2012 HF1. OnGuard 2012 HF1 also supports versions for OnGuard 2012 as listed in Section 4.3 Versioning Information on page 11.

3.1.1. Current Access Series (LNL) Firmware and Special Application Versions

- LNL-1100/1200 Version 1.32.0
- LNL-1300 Version 1.52.4
- LNL-1320 Version 1.55.0
- LNL-2210/2220/3300 Version 1.176

3.1.2. Current Security Series (NGP) Firmware

- NGP: 1.02.032 (applies to NGP-22xxx and NGP-33xxx panels)
- NGP-1300-U/1320-U/1200-U/1100-U: NGP V11.11.02

3.1.3. Current ILS Firmware

- **Lock Firmware:**
  - Control Module (ACU): 3.0.0.24 (updated)
  - Prox Reader: 3.0.0.1
  - iClass Reader: 3.0.0.2
  - MIFARE® Reader: 3.0.0.14
  - WLM NA: 0.9.21358
  - WLM EU: 0.9.21366
- **PDA Application:**
  - Serial: 2.0.4.5 (updated)
  - USB: 3.0.1.2
- **WAP Firmware:**
  - WWM NA (North America): 0.9.21358
  - WWM EU (Europe): 0.9.21366
  - WMC Ethernet Firmware: 2.0.21791
  - WMC Wi-Fi Firmware: 2.0.21791

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3.1.4. Supported Operating Systems

OnGuard 2012 Hot Fix 1.0 has been approved with the listed operating systems and system service packs. All new systems shipped from Lenel will include one of the supported service packs. **OPERATING SYSTEM REQUIREMENTS ARE NOW ENFORCED.** Installations attempted on other operating systems will not run.

Notes:	OnGuard is a 32-bit application that can be run on some 64-bit systems. 64-bit systems are only supported as listed in this section. Windows Vista is no longer supported with OnGuard.

For an up-to-date list of tested operating systems and service packs, refer to the compatibility charts on the Lenel Web site: http://www.lenel.com/support/downloads/onguard#compatibility-charts. (You will need your Lenel login to gain access to this site.)

3.1.4.1. Windows 8 Enterprise and Professional

- Windows 8 Enterprise and Professional 32-bit and 64-bit are approved for all OnGuard server and client operations.
- Windows 8 Enterprise and Professional are not recommended for use as the Web Application Servers (LS Application Server service) because the number of client connections to IIS is limited in these operating systems.
- Windows 8 Enterprise and Professional will be called "Windows 8" from this point forward in the OnGuard Release Notes.

3.1.4.2. Windows Server 2012 Standard

- Windows Server 2012 Standard 64-bit is approved for all OnGuard server and client operations.
- Lenel NVR is supported on Windows 2012 Standard 64-bit.
- Windows Server 2012 Standard will be called "Windows Server 2012" from this point forward in the OnGuard Release Notes.

3.1.4.3. Supported High Availability Systems (MS Clustering and NEC ExpressCluster)

- **Windows Server 2012 Standard:** Support for high availability systems with Windows Server 2012 Standard is pending testing by Lenel's Quality Assurance group. Until testing has been completed, upgrades are at your own risk, and should only be done after performing your own testing. For the current testing status, refer to the Third Party Application Compatibility Chart on the Lenel website: https://customer.lenel.com/?q=support/compatibility-charts.
- **Microsoft SQL Server 2012:** Support for high availability systems with Microsoft SQL Server 2012 is pending testing by Lenel's Quality Assurance group. Until testing has been completed, upgrades are at your own risk, and should only be done after performing your own testing. For the current testing status, refer to the Third Party Application Compatibility Chart on the Lenel website: https://customer.lenel.com/?q=support/compatibility-charts.

3.1.5. Supported Database Systems

For an up-to-date list of tested database systems, refer to the compatibility charts on the Lenel Web site: http://www.lenel.com/support/downloads/onguard#compatibility-charts.

- Microsoft SQL 2008 Express R2 SP1 32-bit and 64-bit
- Microsoft SQL 2008 Standard R2 SP1 32-bit and 64-bit
- Microsoft SQL 2012 Express SP1 32-bit and 64-bit

3.2. New Features and Updates

- **Add Support for Bosch 9412GV4 and 7412GV4 to OnGuard (OG-26776):** The GV4 update for the D9412GV4 panels includes an increase to the number of areas (32) and panel users (999), while the support for both the D9412GV4 and the D7412GV4 includes additional changes necessary to account for the expanded functionality set offered by the GV4 protocol panels. GV4 firmware version 1.10 is supported. The control panel is not configured using OnGuard, but rather the Bosch software; therefore, it should be installed and configured according to the manufacturer documentation. For more detailed information, refer to the Lenel Knowledge Base (http://kb.lenel.com) article, Bosch GV4 Series Intrusion Control Panel Configuration, DOC-1102-EN-US.
- **Language Support Available after Upgrading OnGuard 2012 (OG-27368):** Upgrading to OnGuard 2012 Hot Fix 1.0 automatically installs all released language packs. Existing customers of OnGuard 2012 will not need to re-apply a language pack after installing the upgrade. New customers will not need to download or apply a language pack at all. All customers must have the appropriate license bit enabled for language support, and must configure their OnGuard systems to run with a language pack (for example, run the Database Translator utility). For more information, refer to the Language Release Notes and Language Pack User Guide.

3.3. Known Issues

- **Installation procedure for SQL Server 2012 is different than installation procedure for SQL Server 2008 (OG-27128):** The installation procedure for SQL Server 2008 Standard Edition, as explained in the OnGuard 2012 Installation Guide (DOC-110, Revision 2.030, March 2012) is different than the procedure necessary for installing SQL Server 2012. To properly install SQL Server 2012, refer to Installing and Configuring SQL Server 2012 (DOC-1005-EN-US).
- **Upgrading from SkyPoint 2.0 to SkyPoint 3.5 recommended before upgrading OnGuard (OG-27206):** To ensure proper operation of SkyPoint, Lenel recommends upgrading from SkyPoint 2.0 to SkyPoint 3.5 before installing this OnGuard Hot Fix.

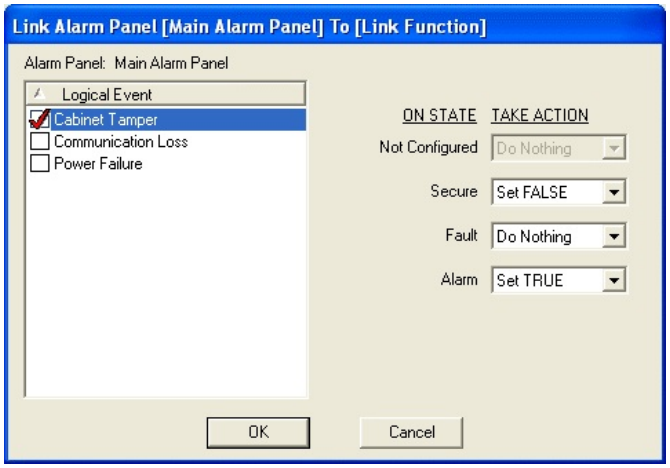
  In order to use SkyPoint 2.0, a manual update to the Communication Server application configuration file (Lnlcomsrvr.exe.config) is required.

  On each Communication Server:

  1. Stop the "LS Communication Server" service.
  2. In the OnGuard installation directory, navigate to the Lnlcomsrvr.exe.config file.
  3. Open the Lnlcomsrvr.exe.config file in a text editor.
  4. Change the default "3.5" to "2.0" as shown below:

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
   <appSettings>
      <add key="SkyPointBaseVersion" value="2.0"/>
   </appSettings>
</configuration>
```

  5. Save the Lnlcomsrvr.exe.config file.
  6. Restart the "LS Communication Server" service.
- **NGP Local I/O requires exactly two actions to be defined (OG-27262):** In order for an NGP local I/O to work properly, configure only two actions on the Link Alarm Panel window. Defining one action or three actions prevents the local I/O from working as expected. This issue only affects OnGuard 2012 Cumulative Hot Fix 1.0.



4. OnGuard 2012 Release Notes

4.1. Supported Operating System Requirements Now Enforced

The installation or upgrade of OnGuard 2012 will be blocked on any operating system version not specifically listed as supported in Section 4.3.6, Supported Operating Systems.

To install OnGuard 2012, upgrade to a supported operating system and service pack before starting the installation.

4.2. Upgrades

Direct upgrades of the OnGuard software are supported for all currently supported versions of OnGuard. (The list of currently supported versions of OnGuard can be found in Knowledge Base article 1345: http://kb.lenel.com/article.aspx?article=1345&p=2.) For versions prior to OnGuard 2005 Second Edition (5.11.216), an incremental upgrade will need to be performed to get to 5.11.216. Systems from 5.11.216 and newer can and should be upgraded directly.

Note: Review each of the following items carefully to determine whether additional steps are needed for your particular upgrade.

- **End of Life Products Must Be Deleted PRIOR to Upgrade (OG-23947):** The Database Incompatibility Wizard runs during an upgrade and performs the following checks:
  1. Checks for existing configuration data that must be manually removed before the upgrade can continue. Installation cannot proceed if any of the following are detected:
     - **Hardware:** AAD Readers, AMD 12 Input Panels, Apollo Hardware, Asset Reader Interfaces, Cisco AIC Hardware, Digitize CAPSII Receivers, Identix Fingerscan V20 Readers, LNVS Hardware
     - **Smart Card Formats:** Cartographer, CombiSmart, GSC (DESFire), GuardDog, IE Smart Touch, Offline Guest, TI Access Control, UltraScan, Windows Certificate
  2. Warns that any existing custom reports and DataExchange scripts may not work after upgrade (if they exist). User is prompted as to whether or not they would like to continue installing OnGuard.
  3. Warns the user about the existence of the following biometric data that is automatically removed by Database Setup. User is prompted as to whether or not they would like to continue installing OnGuard.
     - Identix Fingerprint Templates
     - Ultrascan Fingerprint Templates
     - Biocentric Fingerprint Templates
  4. Warns the user, if STENTOFON audio server is configured, that they will need to install the STENTOFON add-on after upgrading OnGuard. This prompt does not allow the user to stop the upgrade. It is simply an informative message.

4.3. Versioning Information

4.3.1. Current Access Series (LNL) Firmware and Special Application Versions

- LNL-1100-U, LNL-1200-U, LNL-1300-U, LNL-1320-U Version 10.12
- LNL-500/1000/2000 ISC Version v3.120
- LNL-2210/2220/3300 ISC Version v1.143
- LNL-1100/1200 Series 1 Version v1.04
- *LNL-1100/1200 Series 2 Version v1.31
- LNL-CK Rev A Version v1.30
- LNL-CK Rev B/C Version v1.50
- LNL-1320 Series 1 Version v1.13
- *LNL-1320 Series 2 Version v1.51
- LNL-1300 Series 1 Download not supported
- *LNL-1300 Series 2 Version v1.51
- Bioscrypt with LNL-500B gateway firmware v1.26
- RSI biometrics with LNL-500B gateway firmware v1.25
- Recognition Source PIM-485-16-OT with wireless LNL-500W gateway firmware v1.10

***Note:**	Before downloading the firmware in this release to downstream Lenel access control boards, please ensure that DIP switch or jumper 8 is in the OFF position. Failure to take this step will result in an inability to communicate to these boards until the switch or jumper position is corrected, and may therefore affect normal operation of your system. By default, boards are shipped with DIP switch or jumper 8 in the OFF position.

4.3.2. Current Security Series (NGP) Firmware

- NGP: 1.02.020 (applies to NGP-22xxx and NGP-33xxx panels)
- NGP-1300-U/1320-U/1200-U/1100-U: NGP V10.04.02

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4.3.3. Current ILS Firmware

- Lock Firmware:
  - Control Module (ACU): 3.0.0.18
  - Prox Reader: 3.0.0.1
  - iClass Reader: 3.0.0.2
  - MIFARE® Reader: 3.0.0.14
  - WLM NA: 0.9.21358
  - WLM EU: 0.9.21366
  - PDA Application: 2.0.3.8
- WAP Firmware:
  - WWM NA: 0.9.21358
  - WWM EU: 0.9.21366
  - WMC Ethernet Firmware: 2.0.21791
  - WMC Wi-Fi Firmware: 2.0.21791

4.3.4. Current Digital Video Firmware

- Lenel Digital Video Recorder (LDVR) – Firmware Version 7.21 Hot Fix 2.0
- Lenel Network Video Recorder (LNVR) – Firmware Version 7.0.xxx
- Intelligent Video Server (IVS) – Firmware Version 7.0.xxx
- Intelligent Video Application Server (IVAS) – Firmware Version 7.0.xxx
- Remote Monitoring – Firmware Version 7.0.xxx
- Lenel Streaming Video Server (LSVS) – Firmware Version 7.0.xxx

4.3.5. Minimum System Hardware Requirements

- Pentium IV 1 GHz Processor
- 2 GB RAM
- DVD-ROM
- USB Port
- 1024x768 color display
- 6 GB of available space

4.3.6. Supported Operating Systems

The following products have been approved with the listed operating systems and system service packs. All new systems shipped from Lenel will include at least these service pack versions. **OPERATING SYSTEM REQUIREMENTS ARE NOW ENFORCED.** Installations attempted on other operating systems will not run.

Notes:	OnGuard is a 32-bit application that can be run on some 64-bit systems. 64-bit systems are only supported as listed in this section. Windows Vista is no longer supported with OnGuard.

For an up-to-date list of tested operating systems and service packs, refer to the compatibility charts on the Lenel Web site: http://www.lenel.com/support/downloads/onguard#compatibility-charts. (You will need your Lenel login to gain access to this site.)

4.3.6.1. Windows XP Professional with Service Pack 3

- Windows XP Professional is approved for OnGuard server and client operations.
- Windows XP is not supported for use as the Web Application Server (LS Application Server service) because the number of client connections to IIS is limited in this operating system.
- Windows XP Professional is approved for use as any Lenel Digital Video product host operating system.
- Windows XP 64-bit is NOT supported.
- Windows XP SP3 is supported for communication with HID Edge Devices.
- Windows XP SP3 will be called Windows XP, from this point forward, in the OnGuard 2012 Release Notes.

4.3.6.2. Windows Server 2003 with Service Pack 2

- Windows Server 2003 SP2 Standard and Enterprise are approved for all OnGuard server and client operations.
- Windows Server 2003 64-bit is NOT supported.
- Windows Server 2003 SP2 Standard and Enterprise are approved for use as any Lenel Digital Video product host operating system, NOT including the OnGuard GO! product.
- Windows Server 2003 SP2 Standard and Enterprise can be utilized as the separate OnGuard server with Lenel Digital Video products.
- Windows Server 2003 Standard and Enterprise SP2 will be called Windows Server 2003, from this point forward, in the OnGuard 2012 Release Notes.

4.3.6.3. Windows Server 2003 R2 with Service Pack 2

- Windows Server 2003 R2 SP2 Standard and Enterprise are approved for all OnGuard server and client operations.
- Windows Server 2003 R2 64-bit is NOT supported.
- Windows Server 2003 R2 SP2 Standard and Enterprise are approved for use as any Lenel Digital Video product host operating system, NOT including the OnGuard GO! product.
- Windows Server 2003 R2 SP2 Standard and Enterprise can be utilized as the separate OnGuard server with Lenel Digital Video products.
- Windows Server 2003 R2 SP2 Standard is supported for communication with HID Edge Devices.
- Windows Server 2003 Standard and Enterprise R2 SP2 will be called Windows Server 2003 R2, from this point forward, in the OnGuard 2012 Release Notes.

4.3.6.4. Windows Server 2008 with Service Pack 2

- Windows Server 2008 Standard and Enterprise SP2 are approved for all OnGuard server and client operations.
- Windows Server 2008 SP2 32-bit and 64-bit are supported.
- Windows Server 2008 SP2 32-bit is approved for use as an LNVR product host operating system.
- Windows Server 2008 SP2 64-bit is approved for use as an LNVR product host operating system.
- Windows Server 2008 SP2 Standard Edition 32-bit is supported for communication with HID Edge Devices.
- Windows Server 2008 Standard and Enterprise SP2 will be called Windows Server 2008, from this point forward, in the OnGuard 2012 Release Notes.

4.3.6.5. Windows Server 2008 R2 with Service Pack 1

- Windows Server 2008 Standard and Enterprise R2 SP1 are approved for all OnGuard server and client operations.
- Windows Server 2008 R2 64-bit SP1 is supported.
- Windows Server 2008 Standard and Enterprise R2 SP1 is approved for use as an LNVR product host operating system.
- Windows Server 2008 Standard and Enterprise R2 SP1 can be utilized as the separate OnGuard server with Lenel Digital Video products.
- Windows Server 2008 R2 SP1 Enterprise 64-bit is not supported for communication with HID Edge Devices.
- Windows Server 2008 Standard and Enterprise R2 SP1 will be called Windows Server 2008 R2, from this point forward, in the OnGuard 2012 Release Notes.

4.3.6.6. Windows 7 with Service Pack 1

- Windows 7 SP1 Professional and Ultimate are approved for all OnGuard server and client operations.
- Windows 7 is not recommended for use as the Web Application Server (LS Application Server service) because the number of client connections to IIS is limited in this operating system.
- Windows 7 SP1 Professional and Ultimate 32-bit and 64-bit are supported.
- Windows 7 Enterprise 32-bit is supported for communication with HID Edge Devices.
- Windows 7 Enterprise 64-bit is not supported for communication with HID Edge Devices.
- LNVR is not supported on Windows 7 64-bit. It is supported on Windows 7 32-bit.
- Windows 7 is supported as host OS for LNVR, 32-bit only.
- Windows 7 SP1 Professional and Ultimate will be called Windows 7, from this point forward, in the OnGuard 2012 Release Notes.

4.3.6.7. Service Packs and Critical Patches

Please visit the Lenel Support site for a complete and up to date list of approved Microsoft Service Packs (Compatibility Charts section) and Critical Patches (MS Patches section): http://www.lenel.com/support/downloads/onguard. (You will need your Lenel login to gain access to this site.) The Lenel Security Patch Policy located on the Web site details the specific conditions and frequency of certification for Microsoft Windows Critical Updates.

Read through this information carefully since it addresses BOTH OPERATING SYSTEMS AND DATABASES.

For all instances, Lenel STRONGLY RECOMMENDS enabling the uninstall option when installing the service pack. There have been rare instances where communications and database activity have been affected by the installation of a service pack. When these situations have occurred, uninstalling the service pack resolved the issues.

Lenel also STRONGLY RECOMMENDS backing up your database before performing any service pack installation.

4.3.7. Security Utility

Windows Firewall is supported by use of the Security Utility; other third-party firewalls are not supported.

The Security Utility allows OnGuard 2012 users to take advantage of the capabilities of Windows. The utility must be run to ensure that the OnGuard software will continue to function properly. The utility automatically adjusts all settings that affect the OnGuard software. It also displays the current system settings, as well as a list of actions required for normal operation of Lenel software installed on the local computer.

> **Note:** The Security Utility does not open database communication ports.

The Security Utility runs automatically during OnGuard, LNVR, IVS, IVAS, Remote Monitor, and Device Discovery Console installations. It must be run manually after LDVR installations. It must also be run manually as a maintenance procedure after any of the following changes have been made:

- LNVR security setting changes
- IntelligentVideo Server security setting changes
- Windows updates
- Windows service pack changes
- Windows security setting changes

4.3.8. Supported Database Systems

For an up-to-date list of tested database systems, refer to the compatibility charts on the Lenel Web site: http://www.lenel.com/support/downloads/onguard#compatibility-charts.

> **Note:** When creating or modifying an ODBC connection on a 64-bit operating system, the location where the ODBC Data Sources are configured is different than on 32-bit operating systems:

- For 32-bit operating systems: Click Start, then navigate to Settings > Control Panel > Administrative Tools > Data Sources.
- For 64-bit systems: Navigate to **C:\windows\SysWOW64** and run the **odbcad32.exe** file.
- Microsoft SQL Server 2005 Express SP4, 32-bit and 64-bit
- Microsoft SQL Server 2005 SP4, 32-bit and 64-bit

> **Note**: SQL Server 2005 requires .NET 4.0 as a prerequisite.

- Microsoft SQL Server 2008 Express SP2, SP3, 32-bit and 64-bit
- Microsoft SQL Server 2008 SP2, SP3, 32-bit and 64-bit
- Microsoft SQL Server 2008 R2 Express SP1, 32-bit and 64-bit

> **Note:** Microsoft SQL Server 2008 R2 Express SP1 is now installed with OnGuard for systems that do not have a database installed.

- Microsoft SQL Server 2008 R2 SP1
- Oracle 10g R1 Server 32-bit (10.1.0.5)
- Oracle 10g R2 Server 32-bit (10.2.0.3 and 10.2.0.4)

- Oracle 10g R2 Server 64-bit (10.2.0.3, 10.2.0.4, 10.2.0.5)
- Oracle 11g R1 Server 32-bit (11.1.0.6)
- Oracle 11g R1 Server 64-bit (11.1.0.7) with 32-bit Client installed if OnGuard is running on the same server as the database
- Oracle 11g R2 Server 32-bit (11.2.0.3)
- Oracle 11g R2 Server 64-bit (11.2.0.3)

> **Note**: The Web applications require 32-bit drivers to connect to an Oracle database.

4.3.9. Supported System Components

- Scan Shell SDK version 9.50.0
- MDAC (REQUIRED)
- DirectX (REQUIRED)
- Windows XP and Windows Server 2003: DirectX 9c
- Windows Server 2008 and Windows 7: DirectX 10
- MSXML 6 (REQUIRED) - MSXML 6 is installed automatically with OnGuard.
- Adobe Flash Player 9 or later (REQUIRED for Visitor Management Host)
- Microsoft Silverlight 3.0 or later (REQUIRED for Visitor Administration)
- Microsoft .NET 4.0 (REQUIRED) - Microsoft .NET 4.0 is installed automatically with OnGuard when installing using the **setup.exe** file. To shorten the OnGuard installation time, install Microsoft .NET 4.0 (available on the Supplemental Materials disc) prior to installing OnGuard.

> **Notes:** If the Microsoft .NET 4.0 installation fails during the OnGuard installation on Windows Server 2008, you must run the System Update Readiness Tool available from Microsoft: http://support.microsoft.com/kb/947821.
>
> To prevent this issue, verify that the Windows Update service is turned on.

4.3.10. Internet Information Services (IIS)

IIS is REQUIRED for the Web Application Server.

- Windows Server 2003: IIS 5 and 6
- Windows Server 2008: IIS 7
- Windows Server 2008 R2: IIS 7.5
- Windows Server 2012: IIS 8

The following minimum settings are required for the browser-based applications to function properly:

- Common HTTP Features
- Static Content
- Default Document
- Directory Browsing
- HTTP Errors
- HTTP Redirection
- Application Development
- ASP.NET
- .NET Extensibility
- ISAPI Extensions
- ISAPI Filters
- Security
- Windows Authentication
- Request Filtering
- Management Tools
- IIS Management Console
- IIS 6 Metabase Compatibility
- IIS 6 WMI Compatibility

4.3.11. VMware Platforms

- VMware ESXi Server 4.1 and 5.0 for all OnGuard services and database server with software-based license only
- VMware Workstation 7.x

Notes:	VMware platforms are not supported with Lenel video products.
	VMware is supported for OnGuard standard and Enterprise systems.

4.3.12. Supported Third-party Components

- Crystal Reports XI (11 and 11.5) Release 2, Crystal Reports 12, Crystal Reports 14
- Adobe Reader 10.1.1

4.3.13. Antivirus Software Applications

Lenel does not certify any antivirus software to be used with OnGuard.

Notes:	Digital Video systems MUST EXCLUDE ALL DATA DRIVES from the antivirus scanning operations. The \LicenseServerConfig\Licenses folder on the License server should also be excluded, since it will sometimes corrupt the license file.

- **McAfee Virus Scan:** McAfee Virus Scan can be recommended, but is not tested or certified at Lenel and is installed at the user's risk.
- **Symantec Endpoint Protection:** Symantec Endpoint Protection is used internally at Lenel and can be recommended, but is not certified.
- **Trend Micro OfficeScan Corporate Edition version 8.0:** Trend Micro OfficeScan can be recommended, but is not tested or certified at Lenel and is installed at the user's risk.

4.3.14. Supported Web Browser

- Internet Explorer 8.0 or 9.0 (REQUIRED for License Administration and Web applications)
- Internet Explorer 10 for Microsoft Windows 8
- 32-bit version of Internet Explorer when using VideoViewer (Browser-based Client)

4.3.15. Supported Terminal Services

OnGuard 2012 will support Terminal Services. This support is a licensed feature. Please refer to the Lenel Web site to review the current testing status before configuring terminal services. The Third Party Applications Compatibility Chart can be accessed at: http://www.lenel.com/support/downloads/onguard#compatibility-charts. (You will need your Lenel login to gain access to this site.)

- Citrix XenApp is not supported within Windows XP
- Citrix XenApp is not supported for viewing video.

4.3.16. OPC Versions

- OPC Data Access 2.0
- OPC Alarms and Events 1.0

4.3.17. SNMP Versions

- SNMPv1 Trap Messages are supported.
- SNMPv2 and SNMPv3 Trap messages are NOT supported.

4.3.18. Supported High Availability Systems

For more information, refer to the Third Party Applications Compatibility Chart on the Lenel Web site at: http://www.lenel.com/support/downloads/onguard#compatibility-charts. (You will need your Lenel login to gain access to this site.)

- NEC ExpressCluster X R2 32-bit LAN 2.1.1.2
- NEC ExpressCluster X R2 32-bit WAN 2.1.1.2
- NEC ExpressCluster X R2 64-bit LAN 2.1.1.2
- NEC ExpressCluster X R2 64-bit WAN 2.1.1.2
- NEC ExpressCluster X R3 32-bit LAN 3.0.0.1
- NEC ExpressCluster X R3 32-bit WAN 3.0.0.1
- NEC ExpressCluster X R3 64-bit LAN 3.0.0.1
- NEC ExpressCluster X R3 64-bit WAN 3.0.0.1

Note: Lenel provides instructions for upgrading the OnGuard software only when the NEC ExpressCluster X version, operating system, and database version remain constant. For any other upgrade scenario, we recommend a database backup, the cleansing of both servers in the cluster, clean installs, database restoration, and then database setup. There may be operating system and database system upgrade scenarios where very knowledgeable administrators could avoid erasing the entire configuration, but we cannot guarantee their support.

4.3.19. End of Life Products and Features

Refer to Section 4.2, Upgrades for the list of end of life products that need to be removed prior to upgrade. The following products and features have discontinued support in OnGuard 2012:

- Assign to Elevator Control Level fields no longer supported: Enable Floor During Day Mode, Enable Floor When Using Facility Code
- Biocentric Solutions
- Digitize CAPS II Receiver
- Disabling Assets: The feature for disabling assets has been discontinued. AAD and asset readers are no longer available for selection as reader types. The AMD Alarm Panel Type has been removed.
- Gemplus MPCOS-EMV smart cards
- GSC Cartographer Smart Card Application
- GSC (DESFire) Smart Card Application
- Identix
- IE SmartTouch (MIFARE)
- LS Otis Timezone Interface
- Offline Guest Smart Card Format
- Precision Access Exclusion Groups: Exclusion Groups are no longer available for selection. Under command programming, term fields and PIN+10/20 have been removed.

- Smart Card Personalization: Smart Card Personalization was removed from the configuration wizards because Gemplus MPCOS-EMV smart cards are no longer supported.
- Texas Instruments (TI) Access Control Application
- Ultra-scan
- Verisoft
- Windows Certificate User Smart Card Format

4.4. New Features

4.4.1. General

- **Form Translator Change:** Form Translator was integrated into the necessary processes so that it will now run without any prompting. Form Translator is not integrated into Database Setup, so it is not required to run separately.
- **Transparent Data Encryption:** Transparent data encryption (TDE) is supported. TDE performs real-time I/O encryption and decryption of the database and database log files. (Standard OnGuard log files are not encrypted, and TDE does not provide encryption across communication channels.)
- **Setup Assistant simplifies OnGuard installations:** To simplify OnGuard installations and upgrades, Setup Assistant helps users with the configuration steps required before successfully logging into OnGuard. Setup Assistant launches automatically after the OnGuard installer finishes the installation or upgrade process. The portions of the installation process that are incorporated into Setup Assistant include Security Utility, Database Installation Utility, License Administration, Database Setup, Form Translator, and Application Server configuration.
- **Start menu program list simplified:** The Windows Start menu program list for OnGuard has been organized into categories so that the list is condensed and simplified.
- **Documentation menu simplified:** The Documentation menu has been simplified. Also the Documentation and Help has been condensed into a single installable feature.
- **Support for the 2D Aztec Bar Code in BadgeDesigner:** OnGuard now has support for the 2D Aztec bar code in BadgeDesigner.
- **Supplemental Materials Disc Supports Newest Version of OnGuard Only:** Beginning with Revision 12, the Supplemental Materials disc will only contain support materials for the newest version of the OnGuard software; previous versions of the Supplemental Materials disc contained support materials for all supported versions of the OnGuard software. Previous versions of the Supplemental Materials disc are available for download on the Lenel Web Site at Support > Downloads. (You will need your Lenel login to gain access to this site.)

4.4.2. Access Control

- **Stentofon Intercom is now an Accessory Add-on:** The Stentofon Intercom, which was previously integrated into OnGuard, is now an accessory add-on.
- **Alarm Monitoring on Multiple Windows:** Alarm Monitoring can now be displayed on multiple windows. This will allow the user to manage multiple integrated hardware pieces from the Alarm Monitoring operating environment and improves the consistency and usability of the monitoring interface. The display mode of Alarm Monitoring windows can be toggled between standard and floating behavior. When a window is in the floating display mode, it can be positioned outside the main Alarm Monitoring window onto one or more monitors.
- **Permissions User Interface Enhancements:** The user interface for Permissions has been updated for better usability:
  - Compare, search, and export features were added.
  - System Permission Groups, Cardholder Permission Groups, and Monitor Permission Groups have been converted for ease of use into a tree structure allowing the user to view and update all permissions at once. Each permission is organized by category (previously sub-tabs). For example, in the System Permission Groups tree, the Cardholder, Visitor, and Directory accounts permissions display under Cardholders. Permissions can be configured individually or at the category level.
  - System, Cardholder, or Monitor Permission Groups can be compared against another or proposed changes can be compared to the existing group settings before saving.
  - The new Users Folder Search form can be used to view users granted specific permissions or users with specific permission groups.
  - An Export button has been added to the System, Cardholder, and Monitor Permission Groups forms that allow the user to export the currently selected permission group settings to a report in the Comma Delimited .csv file format.
  - In the new Compare mode, the user can export the settings of the permission groups being compared. Search results can also be exported to a report in the Comma Delimited .csv file format.
- **Performance Improvement in Area Access Manager (Browser-based Client):** The performance of Area Access Manager (Browser-based Client) has been improved.
- **Elevator dispatching: Inter-floor Matrix tab added for passenger separation:** The Inter-floor Matrix tab was added to the Elevator Dispatching Devices form. On this tab, you can allow the system to control passenger separation using the inter-floor matrix configuration. When enabled, the floors of a building can be configured into logically divided sections (floor groups) to prevent passenger requests between the designated sections of the building, and possibly, to separate passengers into different elevator cars based on their section membership.

  Note: This option is only available for version V2 DES (elevator terminal) devices.

- **Otis Compass V2 Integration: Inter-version control added for elevator dispatching devices:** Otis Compass firmware version control has been added to the Elevator Dispatching Configuration Folder > Connection form. Select which version of DES (Destination Entry Server) or DER (Destination Entry Redirector) devices are installed on your system. Both V1 and V2 systems are supported. If version V1 does not support a feature, only the applicable information will be sent to the V1 devices (V2-specific settings will be ignored.)

- **Otis Compass V2 Integration: Differentiate between front or rear elevator door:** Front or rear door differentiation is supported for elevator terminals associated with version V2 elevator dispatching devices. On the Cardholder Badge form, you can configure which Default door you want to associate with the Default floor when a badge is presented to the elevator reader.

  Notes: The Default floor and Default door fields are not displayed on the Cardholder Badge form until elevator dispatching hardware is configured.

  Ensure these additional fields do not interfere with existing fields on the Badge form. If necessary, use FormsDesigner to modify the form layout to accommodate the additions. For Enterprise systems, you MUST add these fields at the Master, and then replicate them down to all Regions. Refer to the elevator dispatching documentation in the System Administration User Guide for details on adding the necessary fields.

- **Otis Compass V2 Integration: PIN code control introduced for elevator terminals:** The Enable PIN Code check box was introduced on the Elevator Terminal > Terminal Configuration form. Select to allow the cardholder to enter their personal identification number (PIN) at the DEC (elevator terminal). If a valid PIN code is entered, OnGuard sends the authorized floors to the DEC based on the badge's access levels. This option is only available for elevator terminals associated with a version V2 DES or DER.
- **Otis Compass V2 Integration: Elevator terminal events and alarm control added:** An option to Enable Audits was introduced on the Elevator Terminal > Terminal Configuration form. Select to allow events to be sent from the DEC (elevator terminal) to Alarm Monitoring.

  Note: This option is only available for elevator terminals associated with a version V2 DES or DER.

- **Local I/O: Permanently activate/deactivate a timezone:** A new Local I/O function (Timezone Override) was added for Lenel panels to allow permanent activation or deactivation of a timezone. In this case, the timezone will remain activated or deactivated until another activation or deactivation command is issued. The existing Local I/O function (Timezone Activate/Deactivate) only allows activation or deactivation until the next interval.
- **Monitor reader AUX input and output devices in the System Status window:** Reader auxiliary input and output devices configured in OnGuard are now displayed in the Alarm Monitoring System Status window as well as the System Administration Hardware Tree. Reader AUX input and output devices display with the same icons as alarm input and output devices and exhibit similar behaviors in the system trees.
- **Selective cardholder downloads: All access levels now available:** Previously, the access levels available for a selective cardholder download was limited to only those that had readers attached to the panel. The new Show all access levels feature allows you to choose from all access levels currently configured in the segment to which the panel belongs. When more than one (1) panel is selected for downloading cardholders, Show all access levels is always enabled.
- **Timezones: Configure holidays to repeat yearly:** Configure a holiday to repeat every year. When this feature is enabled, the holiday's year is automatically recalculated during panel downloads.

  Note: Linkage server must be running in order to update holidays.

- **ILS R2: Configuration Wizard now supports adding multiple ILS readers (locks):** The configuration wizard allows you to configure up to 32 ILS wireless or ILS offline readers (locks) per access panel. (From System Administration, select the Application > Wizards menu to open the configuration wizard.)
- **ILS R2: New Battery Status Report:** This report lists battery status of ILS locks grouped by battery status (Low to High), wireless gateway, and battery percent. View or print the new report ILS Lock Battery Status by Status from the Reports Folder > Report Configuration or Reader Reports form.
- **ILS R2: Firmware download enhancements:** Download firmware upgrades (ACU, WLM, or Reader) to all ILS wireless locks assigned to the same Wireless Gateway at the same time.

4.4.3. Digital Video

- **Support for Additional IP Cameras, Video Servers, and Encoders:** Below is a list of the latest IP cameras and encoders that have been added to the current product offering for the Lenel Network Video Solution, with OnGuard 2012. IP devices are licensed on a per channel license which is currently already implemented. No new license requirement is needed for the new devices listed below.

  Note: None of the new cameras added will have colored frame rates.

  - Arecont Vision (AV10005, AV10115, AV1115, AV1300, AV1305, AV1310, AV1315, AV1325, AV1355, AV2100, AV2105, AV2110, AV2115, AV2155, AV2805, AV2815, AV2825, AV3100, AV3105, AV3110, AV3115, AV3130, AV3135, AV3155, AV5100, AV5105, AV5110, AV5115, AV5155, AV8180, AV8185, AV8360, AV8365)
  - Axis (M1054, M5013, M5014, P1347, P3346, P3367, P5512, P5522, P5532, Q1921, Q6035, Q7414)
  - Interlogix (TVC-M1220-1, TVC-M2220-1, TVC-M3220-1, TVC-M5220-1, TVC-N220-1, TVC-N240-1, TVD-M12xxV-2, TVD-M2210W-4, TVD-M22xxV-2, TVD-M32xxV-4, TVD-M5225V-4, TVD-N210V-2, TVD-N210W-4, TVD-N245V-2)
  - IQinVision (IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQ732, IQ832, IQA10, IQA11, IQA12, IQA13, IQA15, IQA30, IQA31, IQA32, IQA33, IQA35, IQD30, IQD31, IQD32, IQD40S, IQD41S, IQD42S, IQeye302, IQeye501, IQeye510, IQeye511, IQeye602, IQeye701, IQeye702, IQeye703, IQeye705, IQeye711, IQeye751, IQeye752, IQeye753, IQeye755, IQeye802, IQeye803, IQeye805, IQeye811, IQeye851, IQeye852, IQeye853, IQeye855, IQM30, IQM31, IQM32)
  - Panasonic (WV-NP502, WV-NW502, WV-SF335, WV-SP305, WV-SP102, WV-SP105, WV-SP302, WV-SP306, WV-SF332, WV-SF336, WV-SC385, WV-SF342, WV-SF346, WV-SC384, WV-SW395, WV-SW355, WV-SW352)
  - Sony (SNC-DH110, SNC-DH210, SNC-RH164, SNC-RH124, SNC-DH220, SNC-CH220, SNC-CH180, SNC-CH140, SNC-CH210, SNC-DH120, SNC-DH140, SNC-DH180, SNC-RS46N, SNC-DH210, SNC-CH110, SNC-DH110, SNC-EP154, SNC-EX154, SNC-EP580, SNC-ER520, SNC-ER580)
- **Video tour:** The video tour functionality has been expanded to include layouts. You can now create a series of video layouts and have them cycle through as a tour.
- **Exported Video Graphic Overlay:** Allows an image to be overlaid on exported video.
- **H.264 Decoder Support:** Added support for main profile in H.264 decoder, which is backwards compatible to OnGuard 2010 (6.4).

4.4.4. Identity Management

- **Commercialization of ActivEntry Solution - FIPS 201 compliant solution:** The functionality of OnGuard panels and readers has been augmented to provide validation of PIV-based credentials at the time of enrollment and access using ActivEntry's F5 solution. This solution fulfills the requirements of FIPS 201.
- **IrisAccess encoding:** IrisAccess ID templates can be encoded on Book 1 of 32K iCLASS cards.
- **Magicard Prima 4 printer:** The Magicard Prima 4 printer with the HID OEM 150 iCLASS programmer is now supported in OnGuard 2012.

4.4.5. Intrusion Detection

- **NGP Panel New Features:** On the IP Central Station form (previously HSP-IP form), Bosch and Osborne-Hoffman protocol support has been added. On the SIA/CID form, Test dialing settings have been added.
- **NGP Panel "HSC-IP" Form Renamed to "IP Central Station":** The NGP panel "HSC-IP" form was renamed to "IP Central Station."
- **New NGP User Report (OG-23111):** An NGP Users report has been added, which includes Name (First and Last), NGP Panel User ID, Cardholder Badge ID, and both Phone Numbers. This report is useful for identifying more information about the user who an event has been generated for, and may be sent to a central station.

4.4.6. Visitor Management

- **Cardholders Visitor Form and Cardholder Options Form Have New E-mail Field Added (OG-23149):** An E-mail field has been added to the Cardholder Visitor form. In addition, a default Visitor E-mail check box has been added to the Cardholder Options > Person E-mail Fields form. You no longer need to add the Visitor E-mail field in FormsDesigner unless you want additional e-mail fields such as one for a home e-mail address. (This new feature only applies to new systems - not upgrades.)

4.5. Known Issues

4.5.1. General

- **Form Translator Change:** Form Translator was integrated into the necessary processes so that it will now run without any prompting. Form Translator is not integrated into Database Setup, so it is not required to run separately.
- **Transparent Data Encryption:** Transparent data encryption (TDE) is supported. TDE performs real-time I/O encryption and decryption of the database and database log files. (Standard OnGuard log files are not encrypted, and TDE does not provide encryption across communication channels.)
- **Setup Assistant simplifies OnGuard installations:** To simplify OnGuard installations and upgrades, Setup Assistant helps users with the configuration steps required before successfully logging into OnGuard. Setup Assistant launches automatically after the OnGuard installer finishes the installation or upgrade process. The portions of the installation process that are incorporated into Setup Assistant include Security Utility, Database Installation Utility, License Administration, Database Setup, Form Translator, and Application Server configuration.

- **Start menu program list simplified:** The Windows Start menu program list for OnGuard has been organized into categories so that the list is condensed and simplified.
- **Documentation menu simplified:** The Documentation menu has been simplified. Also the Documentation and Help has been condensed into a single installable feature.
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- **Supplemental Materials Disc Supports Newest Version of OnGuard Only:** Beginning with Revision 12, the Supplemental Materials disc will only contain support materials for the newest version of the OnGuard software; previous versions of the Supplemental Materials disc contained support materials for all supported versions of the OnGuard software. Previous versions of the Supplemental Materials disc are available for download on the Lenel Web Site at Support > Downloads. (You will need your Lenel login to gain access to this site.)

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- **Permissions User Interface Enhancements:** The user interface for Permissions has been updated for better usability:
  - Compare, search, and export features were added.
  - System Permission Groups, Cardholder Permission Groups, and Monitor Permission Groups have been converted for ease of use into a tree structure allowing the user to view and update all permissions at once. Each permission is organized by category (previously sub-tabs). For example, in the System Permission Groups tree, the Cardholder, Visitor, and Directory accounts permissions display under Cardholders. Permissions can be configured individually or at the category level.
  - System, Cardholder, or Monitor Permission Groups can be compared against another or proposed changes can be compared to the existing group settings before saving.
  - The new Users Folder Search form can be used to view users granted specific permissions or users with specific permission groups.
  - An Export button has been added to the System, Cardholder, and Monitor Permission Groups forms that allow the user to export the currently selected permission group settings to a report in the Comma Delimited .csv file format.
  - In the new Compare mode, the user can export the settings of the permission groups being compared. Search results can also be exported to a report in the Comma Delimited .csv file format.
- **Performance Improvement in Area Access Manager (Browser-based Client):** The performance of Area Access Manager (Browser-based Client) has been improved.

- **Elevator dispatching: Inter-floor Matrix tab added for passenger separation:** The Inter-floor Matrix tab was added to the Elevator Dispatching Devices form. On this tab, you can allow the system to control passenger separation using the inter-floor matrix configuration. When enabled, the floors of a building can be configured into logically divided sections (floor groups) to prevent passenger requests between the designated sections of the building, and possibly, to separate passengers into different elevator cars based on their section membership.

  Note: This option is only available for version V2 DES (elevator terminal) devices.

- **Otis Compass V2 Integration: Inter-version control added for elevator dispatching devices:** Otis Compass firmware version control has been added to the Elevator Dispatching Configuration Folder > Connection form. Select which version of DES (Destination Entry Server) or DER (Destination Entry Redirector) devices are installed on your system. Both V1 and V2 systems are supported. If version V1 does not support a feature, only the applicable information will be sent to the V1 devices (V2-specific settings will be ignored.)
- **Otis Compass V2 Integration: Differentiate between front or rear elevator door:** Front or rear door differentiation is supported for elevator terminals associated with version V2 elevator dispatching devices. On the Cardholder Badge form, you can configure which Default door you want to associate with the Default floor when a badge is presented to the elevator reader.

  Notes: The Default floor and Default door fields are not displayed on the Cardholder Badge form until elevator dispatching hardware is configured.

  Ensure these additional fields do not interfere with existing fields on the Badge form. If necessary, use FormsDesigner to modify the form layout to accommodate the additions. For Enterprise systems, you MUST add these fields at the Master, and then replicate them down to all Regions. Refer to the elevator dispatching documentation in the System Administration User Guide for details on adding the necessary fields.

- **Otis Compass V2 Integration: PIN code control introduced for elevator terminals:** The Enable PIN Code check box was introduced on the Elevator Terminal > Terminal Configuration form. Select to allow the cardholder to enter their personal identification number (PIN) at the DEC (elevator terminal). If a valid PIN code is entered, OnGuard sends the authorized floors to the DEC based on the badge's access levels. This option is only available for elevator terminals associated with a version V2 DES or DER.
- **Otis Compass V2 Integration: Elevator terminal events and alarm control added:** An option to Enable Audits was introduced on the Elevator Terminal > Terminal Configuration form. Select to allow events to be sent from the DEC (elevator terminal) to Alarm Monitoring.

  Note: This option is only available for elevator terminals associated with a version V2 DES or DER.

- **Local I/O: Permanently activate/deactivate a timezone:** A new Local I/O function (Timezone Override) was added for Lenel panels to allow permanent activation or deactivation of a timezone. In this case, the timezone will remain activated or deactivated until another activation or deactivation command is issued. The existing Local I/O function (Timezone Activate/Deactivate) only allows activation or deactivation until the next interval.

- **Monitor reader AUX input and output devices in the System Status window:** Reader auxiliary input and output devices configured in OnGuard are now displayed in the Alarm Monitoring System Status window as well as the System Administration Hardware Tree. Reader AUX input and output devices display with the same icons as alarm input and output devices and exhibit similar behaviors in the system trees.
- **Selective cardholder downloads: All access levels now available:** Previously, the access levels available for a selective cardholder download was limited to only those that had readers attached to the panel. The new Show all access levels feature allows you to choose from all access levels currently configured in the segment to which the panel belongs. When more than one (1) panel is selected for downloading cardholders, Show all access levels is always enabled.
- **Timezones: Configure holidays to repeat yearly:** Configure a holiday to repeat every year. When this feature is enabled, the holiday's year is automatically recalculated during panel downloads.

  Note: Linkage server must be running in order to update holidays.
- **ILS R2: Configuration Wizard now supports adding multiple ILS readers (locks):** The configuration wizard allows you to configure up to 32 ILS wireless or ILS offline readers (locks) per access panel. (From System Administration, select the Application > Wizards menu to open the configuration wizard.)
- **ILS R2: New Battery Status Report:** This report lists battery status of ILS locks grouped by battery status (Low to High), wireless gateway, and battery percent. View or print the new report ILS Lock Battery Status by Status from the Reports Folder > Report Configuration or Reader Reports form.
- **ILS R2: Firmware download enhancements:** Download firmware upgrades (ACU, WLM, or Reader) to all ILS wireless locks assigned to the same Wireless Gateway at the same time.

4.5.3. Digital Video

- **Support for Additional IP Cameras, Video Servers, and Encoders:** Below is a list of the latest IP cameras and encoders that have been added to the current product offering for the Lenel Network Video Solution, with OnGuard 2012. IP devices are licensed on a per channel license which is currently already implemented. No new license requirement is needed for the new devices listed below.

  Note: None of the new cameras added will have colored frame rates.

  - Arecont Vision (AV10005, AV10115, AV1115, AV1300, AV1305, AV1310, AV1315, AV1325, AV1355, AV2100, AV2105, AV2110, AV2115, AV2155, AV2805, AV2815, AV2825, AV3100, AV3105, AV3110, AV3115, AV3130, AV3135, AV3155, AV5100, AV5105, AV5110, AV5115, AV5155, AV8180, AV8185, AV8360, AV8365)
  - Axis (M1054, M5013, M5014, P1347, P3346, P3367, P5512, P5522, P5532, Q1921, Q6035, Q7414)
  - Interlogix (TVC-M1220-1, TVC-M2220-1, TVC-M3220-1, TVC-M5220-1, TVC-N220-1, TVC-N240-1, TVD-M12xxV-2, TVD-M2210W-4, TVD-M22xxV-2, TVD-M32xxV-4, TVD-M5225V-4, TVD-N210V-2, TVD-N210W-4, TVD-N245V-2)

- IQinVision (IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQ732, IQ832, IQA10, IQA11, IQA12, IQA13, IQA15, IQA30, IQA31, IQA32, IQA33, IQA35, IQD30, IQD31, IQD32, IQD40S, IQD41S, IQD42S, IQeye302, IQeye501, IQeye510, IQeye511, IQeye602, IQeye701, IQeye702, IQeye703, IQeye705, IQeye711, IQeye751, IQeye752, IQeye753, IQeye755, IQeye802, IQeye803, IQeye805, IQeye811, IQeye851, IQeye852, IQeye853, IQeye855, IQM30, IQM31, IQM32)
- Panasonic (WV-NP502, WV-NW502, WV-SF335, WV-SP305, WV-SP102, WV-SP105, WV-SP302, WV-SP306, WV-SF332, WV-SF336, WV-SC385, WV-SF342, WV-SF346, WV-SC384, WV-SW395, WV-SW355, WV-SW352)
- Sony (SNC-DH110, SNC-DH210, SNC-RH164, SNC-RH124, SNC-DH220, SNC-CH220, SNC-CH180, SNC-CH140, SNC-CH210, SNC-DH120, SNC-DH140, SNC-DH180, SNC-RS46N, SNC-DH210, SNC-CH110, SNC-DH110, SNC-EP154, SNC-EX154, SNC-EP580, SNC-ER520, SNC-ER580)

- **Video tour:** The video tour functionality has been expanded to include layouts. You can now create a series of video layouts and have them cycle through as a tour.
- **Exported Video Graphic Overlay:** Allows an image to be overlaid on exported video.
- **H.264 Decoder Support:** Added support for main profile in H.264 decoder, which is backwards compatible to OnGuard 2010 (6.4).

4.5.4. Enterprise

- **Badge Template Transaction Failed with Violation of Primary Key Error (OG-17915):** A violation of primary key error occurs if you create a badge template and assign a cardholder to that template before the template has had a chance to replicate. If the creation of the template is replicated before the cardholder is assigned, this problem will not be encountered. To work around this error after it has occurred, purge the transaction that is failing. Once the failed transaction has been purged, other transactions should be processed successfully and the Badge table will be properly synchronized.

  Note: Purging failed transactions will typically result in an unsynchronized system and is not recommended under other circumstances. This action is specific to a particular processing error and has been tested by Lenel.

- **Global I/O Restrictions (OG-13969):** Global I/O linkages will not work between two Enterprise regions. Global I/O configurations must use the same Linkage Server.
- **Global Output Devices, Paging Devices, Workstations Specified at Master are Overwritten with Region Child Workstation after Upgrade (OG-19091):** When upgrading from a version prior to OnGuard 2008 (6.0.148), Global Output Devices, Paging Devices, and Workstations specified at the Master are overwritten with the Region Workstation after the upgrade. This does not occur when upgrading from OnGuard 2008 or later.
- **Pre-existing User-specific Layouts Not Replicated to Enterprise Master (OG-16029):** Pre-existing user-specific video layouts are not replicated up to the Master Server when user replication is enabled. This only affects pre-existing layouts. New layouts will be properly replicated. To work around this limitation, open each existing layout and save it again with the same name.

- **Referential Integrity Error when Saving Camera Layouts (OG-15973):** If a camera layout is saved with cameras added from another Regional Server via the Camera Lookup feature, a Referential Integrity error may occur. To save a layout that generates the error, remove the cameras located on other Regional Servers from the layout prior to saving.
- **IntelligentVideo Applications Not Available on Enterprise Master when Configured on a Child Region (OG-15971):** There is a known issue with the replication of IntelligentVideo Applications to the Master Server. IntelligentVideo Applications can be configured and monitored on a per Region basis.
- **IntelligentVideo Applications Not Supported with IntelligentVideo Application Server Located on a Different Region (OG-15972):** In Enterprise systems, IntelligentVideo Applications should not be configured for IntelligentVideo Application Servers that are located on other Regional Servers. This is not a supported configuration, and the IntelligentVideo Application will not function properly.
- **Full Download to Region Results in Unexpected Log Size and Application Error (OG-21309):** A full download to a Region results in a log larger than expected and an application error.
- **Enterprise Systems: Elevator Dispatching Default Floor/Door Must Be Added to the Master Database (OG-22868):** On standard OnGuard systems, the Default floor and Default door fields are automatically added onto the Cardholder Badge form the first time elevator dispatching hardware is configured.

  Note: For Enterprise systems, you MUST add these fields at the Master, and then replicate them down to all Regions. Refer to the elevator dispatching documentation in the System Administration User Guide for details on adding the necessary fields. In addition, on a standard system, ensure these additional fields do not interfere with existing fields on the Badge form. If necessary, use FormsDesigner to modify the form layout to accommodate the additions.

4.5.5. Identity Management

- **Magicard Tango2e Must Use Driver V1.41 (OG-20299):** Magicard Tango2e driver V1.42 has a known issue with the installation of magapi.dll. Driver V1.41 is available on the Supplemental Materials disc and should be used instead.
- **Magnetic Encoding Does Not Work with Firmware V2.00 for Zebra printers (OG-23809):** Magnetic encoding will not work with firmware V2.00 for Zebra performance class card printers. Earlier versions of the firmware (up to V1.17.88 confirmed) should encode correctly.

4.5.6. Intrusion Detection

- **NGP Panels will only support a Holiday Duration of 365 Days (OG-20814):** When setting the duration of a Holiday that will be configured in a system with NGP Controllers, do not exceed a value of 365 days. The Holiday interface will allow a value up to 366 (for support of LNL Controllers) but that value will not be compatible with an NGP Controller.
- **Unmask Door Held Open events time works differently in NGP panels compared to Mercury panels (OG-23259):** When a Mask Held Open event occurs at a reader in an NGP system the alarm will be sent after 60 seconds instead of immediately.

- **Only one event, instead of two, is generated in Alarm Monitoring when the same timezone is configured for masking Door Forced Open (DFO) and Door Held Open (DHO) alarms (OG-23263):** Only one event, instead of two, is generated in Alarm Monitoring when the same timezone is configured for masking Door Forced Open (DFO) and Door Held Open (DHO) alarms for a reader connected to a NGP Access Panel. This occurs when a door is open during the timezone, but is not closed after the end of the timezone.
- **NGP reader/door buzzer setting should be removed from System Administration (OG-23547):** The option to set the reader/door buzzer for NGP panels in the Timing and Alarms tab has been removed from System Administration.
- **NGP label 'Check for battery' on the Power tab is misleading in how it affects the panel (OG-23942):** The 'Check for Battery' checkbox on the Power sub-tab of the NGP form in the Access Panels folder has been renamed 'Enable Battery'. This setting is enabled by default. If this setting is deselected, the NGP panel will be unable to use battery backup.

4.5.7. Visitor Management

- **Supported Date Format (DE385):** "Short date, no time" (seen in FormsDesigner) is the only date format supported for date fields in Visitor Management Host.
- **Access Control Badges Retain Previous Access Levels When Reassigned (OG-15158):** When an access control badge is assigned to a visitor being signed in, it retains the access levels currently configured for the badge. Signing in/out a previous visitor with the badge does not change the access levels.
- **Error Messages that Result From Not Having JavaScript Are Not Localized (DE395):** Visitor Management requires that JavaScript be enabled in the browser. When it is not enabled, the error message "This application requires JavaScript. Contact your administrator," will appear not localized.
- **Kiosk Virtual Keyboard is not localized for JPN, CHS, or CHT (OG-22235):** The Kiosk's virtual keyboard is not localized for JPN, CHS, or CHT.
- **The Service Trace Viewer Tool is Needed to View the Visitor Management Tracing File (DE1472):** Windows Communication Foundation Service Trace Viewer Tool (SvcTraceViewer.exe) should be used to view the Visitor Management tracing file (Idvm.svcLog) on the server. This can be obtained from Microsoft's Web site as part of the Windows SDK.
- **Front Desk Application: SnapShell scanner does not work for scanning business cards (OG-24017):** In order to use the CSSN SnapShell device for scanning business cards in the Visitor Management Front Desk application, the "Lenel Installer for CSSN SDK" on the Supplemental Materials disc needs to be run.

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